IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Anthony Richard HUGGET	(i) DECODING A SIGNAL
•) ENCODED WITH A
Serial No.) CONVOLUTIONAL CODE
)
Filed:)
) Group Art Unit:
	-
INFORMATION DISCL	OSURE STATEMENT

Commissioner of Patents and Trademarks

Washington, D.C. 20231

Sir,

Submitted herewith, is Form PTO/SB/08A, list of patent references, copy of cited references and the G.B. Search Report.

The claims that are now filed are amended over those searched by the G.B. Patent Office and now require a decision to be based on the known bit information without first modifying the path métrics for the discarded states. This feature is in claim 1, sub-paragraph (b), and has corresponding claim language in the decoder claim 4.

EP 0612166A2 (NEC) and U.S. 2001/0000706A1 (Butler et al) disclose a method of restricting the previous states which the Viterbi algorithm is free to choose. In both cases the path metrics are modified for the paths that end in unwanted states and this causes the decision to be heavily biased in favour of the previous path with the unmodified path metric.

EP 0332290A2 (Plessey) discloses a method where a known (pilot) sequence is used to generate a model of the multi-path channel. This model is then used to modify the input symbols or input metrics. There is no decision making in the sense of that required by the present invention.

U.S. 6089749 (Blaum et al) relates to byte synchronisation recovery at the output of a Viterbi decoder. Again, this reference does not disclose the above-noted feature of the subject application.

Neither U.S. 2002/0144209A1 (Ariel et al) or U.S. 6476739B1 (Lui et al) disclose the essential features of the subject application.

Respectfully Submitted,

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PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031
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Substitute for form 1449A/PTO				Complete if Known		
				Application Number		
INFORMATION DISCLOSURE				Filing Date		
	STATEMENT BY APPLICANT		First Named Inventor	Anthony Richard HUGGETT		
				Group Art Unit		
	_	(use as many sheets as necess	ary)	Examiner Name		
	Sheet	of		Attorney Docket Number		

			U.S. PATENT DOCUM	MENTS	
Examiner tnitials *	Cite No.1	U.S. Patent Document Number Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relev Passages or Relevant Figures Appear
		2001/0000706A	BUTLER ET AL	05-03-2001	
		6089749	BLAUM ET AL	07-18-2000	
		20020144209A	ARIEL ET AL	10-03-2002	
		6476739B	LUI ET AL	11-05-2002	
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FOREIGN PATENT DOCUMENTS								
	Cite No.1	Foreign Patent Document		Name of Patentee	Date of Publication of	Pages, Columns, Lines,		
Examiner Initials*		Office ³	Number ⁴	Kind Code ⁵ (if known)	or Applicant of Cited Document	Cited Document MM-DD-YYYY	Where Relevant Passages or Relevant Figures Appear	T ₆
		EP	0612166		NEC	08-24-1994		
		EP	0332290		PLESSEY	09-13-1989		
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Examiner Signature	Date Considered	

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¹ Unique citation designation number. 2 See attached Kinds of U.S. Patent Documents. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark hee if English language Translation is attached.